

DO NOT DEFINE MULTIPLE TRANSMITTERS WITH IDENTICAL NAMES

It is extremely important that each transmitter have a unique transmitter name (Mnemonic). If each transmitter does not have a unique name, the daily.ASC database ascii file generated automatically by gui_2ascii may fail the crs_site configuration process when the site tries to reload its database.

There are at least two areas in the database ascii file where problems may occur as a result of duplicate transmitter names, Block 10 and Block 18. Block 10 contains the Message Type definition information. Optionally, sites may choose to define voice parameters for one or more Message Types by using the voice indicator. These voice parameters are defined with separate entries for each transmitter as in the following example:

voice

<i>#TxMnemonics</i>	<i>Voice</i>	<i>Rate</i>	<i>Base</i>	<i>Hat</i>	<i>Stress</i>	<i>Rate</i>	<i>Base</i>	<i>Hat</i>	<i>Stress</i>	<i>Ampli</i>
<i>#</i>	<i>Type</i>	<i>Flag</i>	<i>Flag</i>	<i>Flag</i>	<i>Fall</i>		<i>Fall</i>	<i>Rise</i>	<i>Rise</i>	<i>tude</i>
<i>KIH57</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>225</i>	<i>90</i>	<i>34</i>	<i>56</i>	<i>90</i>
<i>WWF53</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>225</i>	<i>90</i>	<i>34</i>	<i>56</i>	<i>90</i>
<i>KIH20</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>225</i>	<i>90</i>	<i>34</i>	<i>56</i>	<i>90</i>
<i>WWF44</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>225</i>	<i>90</i>	<i>34</i>	<i>56</i>	<i>90</i>

Alternatively, if the voice parameters are identical for all transmitters as in the above example, the TxMnemonic “ALL” may be used as in the example below:

voice

<i>#TxMnemonics</i>	<i>Voice</i>	<i>Rate</i>	<i>Base</i>	<i>Hat</i>	<i>Stress</i>	<i>Rate</i>	<i>Base</i>	<i>Hat</i>	<i>Stress</i>	<i>Ampli</i>
<i>#</i>	<i>Type</i>	<i>Flag</i>	<i>Flag</i>	<i>Flag</i>	<i>Fall</i>		<i>Fall</i>	<i>Rise</i>	<i>Rise</i>	<i>tude</i>
<i>ALL</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>225</i>	<i>90</i>	<i>34</i>	<i>56</i>	<i>90</i>

When the ascii file is loaded into the database, the voice parameter information for this Message Type is assigned to all transmitters that are defined in the Block 5 transmitter definition section. The problem arises, using the same example as above, when in addition to the four transmitters already defined, there exists two additional “test” channels that are not assigned to actual transmitters. Let’s suppose they are both defined in Block 5 with the identical Mnemonic “NULL”. If the “ALL” option is used for the voice parameters in Block 10, the crs_site configuration process will run successfully and load the information into the database. However, when the gui_2ascii software generates the daily.ASC file, the voice parameter information that is generated will be the following:

voice

<i>#TxMnemonics</i>	<i>Voice</i>	<i>Rate</i>	<i>Base</i>	<i>Hat</i>	<i>Stress</i>	<i>Rate</i>	<i>Base</i>	<i>Hat</i>	<i>Stress</i>	<i>Ampli</i>
<i>#</i>	<i>Type</i>	<i>Flag</i>	<i>Flag</i>	<i>Flag</i>	<i>Fall</i>		<i>Fall</i>	<i>Rise</i>	<i>Rise</i>	<i>tude</i>
<i>KIH57</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>225</i>	<i>90</i>	<i>34</i>	<i>56</i>	<i>90</i>
<i>WWF53</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>225</i>	<i>90</i>	<i>34</i>	<i>56</i>	<i>90</i>
<i>KIH20</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>225</i>	<i>90</i>	<i>34</i>	<i>56</i>	<i>90</i>
<i>WWF44</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>225</i>	<i>90</i>	<i>34</i>	<i>56</i>	<i>90</i>
<i>NULL</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>225</i>	<i>90</i>	<i>34</i>	<i>56</i>	<i>90</i>
<i>NULL</i>	<i>3</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>1</i>	<i>225</i>	<i>90</i>	<i>34</i>	<i>56</i>	<i>90</i>

This ascii database file will fail the crs-site configuration process because there are two transmitters with identical names.

The same situation may occur for the ROAMS ALARM Title Setup in Block 18.

Example:

The following is an example of the crs_site output one would receive if identical transmitter names are detected in the voice indicator section of Block 10:

```
....
>>> Processing BLOCK #10 ... <<<
Wrote MessageTypeTable:Message Type:LAXLFPGEN / ID:39 successfully
Wrote MessageSAMETable:messageTypeID 39 successfully
Wrote MessageDataTable:messageTypeID 39 successfully
Wrote MessageTypeDataTable:messageTypeID 39 successfully
Wrote MessageTypeDataTable:messageTypeID 39 successfully
Wrote MessageTypeDataTable:messageTypeID 39 successfully
Wrote MessageTypeDataTable:messageTypeID 39 successfully
Wrote MessageTypeDataTable:messageTypeID 39 successfully
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Wrote MessageTypeDataTable:messageTypeID 39 successfully
Wrote MessageTypeDataTable:messageTypeID 39 successfully
Wrote MessageTypeDataTable:messageTypeID 39 successfully
Wrote MessageTypeDataTable:messageTypeID 39 successfully
Wrote MessageTypeDataTable:messageTypeID 39 successfully
DBWrite() failed - MessageTypeDataTable DBTableError = 9010
```

Corrective Action

Sites should perform the following sequence of steps to correct the problem:

1. Open the .ASC file within "vi" and scroll down until BLOCK 10 - Message Types section is reached. Locate the Message Type labeled in the error and verify the following:
 - a. Two or more "Tx Mnemonics" entries are identical
2. If it is found that two or more transmitters have identical names within the Message Types section of the .ASC file then:
 - a. Still within the editor started in step 1, scroll to BLOCK 5 - Transmitter Setup section and convert all Mnemonics (Transmitter Names) that are identical to unique names.
 - b. All sections (Block 10 Message Type voice indicator and Block 18 ROAMS ALARM Title Setup) that have the identical Mnemonics must be updated to have the Mnemonics defined in step a.
 - c. Run Site Configuration on the edited .ASC file.